**שאלה 1**

#include<stdio.h>

void main()

{

double x, y;

printf("please eneter a number:\n");

scanf\_s("%lf", &x);

printf("please eneter a number:\n");

scanf\_s("%lf", &y);

if (x >= y){

printf("%lf", x);

}

else{

printf("%lf", y);

}

}

**שאלה 2**

#include<stdio.h>

void main()

{

int x;

printf("please eneter a number:\n");

scanf\_s("%i", &x);

if (x >= 0 && x <= 10) {

printf("yes");

}

else {

printf("no");

}

}

**שאלה 3**

#include<stdio.h>

void main()

{

int x, y, z;

printf("please eneter a number:\n");

scanf\_s("%i", &x);

printf("please eneter a number:\n");

scanf\_s("%i", &y);

printf("please eneter a number:\n");

scanf\_s("%i", &z);

if (x < y && x < z) {

printf("%i", x);

}

if (y < x && y < z) {

printf("%i", y);

}

if (z < y && z < x) {

printf("%i", z);

}

}

**שאלה 4**

#include<stdio.h>

void main()

{

int x;

printf("please eneter a number:\n");

scanf\_s("%i", &x);

if (x > 9 || x < -9) {

printf("good");

}

else {

printf("bad");

}

}

**שאלה 5**

#include<stdio.h>

void main()

{

int x, y;

printf("please eneter a number:\n");

scanf\_s("%i", &x);

printf("please eneter a number:\n");

scanf\_s("%i", &y);

if (x % y == 0) {

printf("%i divides %i", x, y);

}

else {

printf("%i not divides %i", x, y);

}

}

**שאלה 6**

#include<stdio.h>

void main()

{

int x, y;

char z;

printf("please enter a number:\n");

scanf\_s("%i", &x);

printf("please enter a char:\n");

scanf\_s("\n%c", &z);

printf("please enter a number:\n");

scanf\_s("%i", &y);

if (z == '+') {

printf("%i", x + y);

}

if (z == '-') {

printf("%i", y - x);

}

if (z == '\*') {

printf("%i", x \* y);

}

if (z == '/' && y != 0) {

printf("%i", x / y);

}

if (y == 0){

printf("error");

}

}

**שאלה 7**

#include<stdio.h>

void main()

{

int x;

char y;

printf("welcome to the bar, please enter your age:\n");

scanf\_s("%i", &x);

if (x >= 18){

printf("great, choose your drink, press b for beer or w for a glass of wine\n");

scanf\_s("\n%c", &y);

if(y == 'w'){

printf("your glass of wine is on the way!");

}

if(y == 'b'){

printf("your beer is on the way!");

}

}

if (x < 18) {

printf("we are sorry but your not old enugh.");

}

}

**שאלה 8**

#include<stdio.h>

void main()

{

int x, y;

printf("please enter your heart rate:\n");

scanf\_s("%i", &x);

printf("please enter your week:\n");

scanf\_s("%i", &y);

if (x <= 60) {

if (y == 1 || y == 2) {

printf("you need to run 3km");

}

if (y == 3 || y == 4) {

printf("you need to run 5km");

}

if (y > 5) {

printf("you need to run 10km");

}

}

if (x > 60 && x < 71) {

if (y == 1 || y == 2) {

printf("you need to run 3km");

}

if (y == 3 || y == 4) {

printf("you need to run 5km");

}

if (y > 5) {

printf("you need to run 8km");

}

}

if (x >71) {

printf("you need to run 3km");

}

}

**שאלה 9**

#include<stdio.h>

void main()

{

int x, y, z;

double w;

printf("please enter your test grade:\n");

scanf\_s("%i", &x);

printf("please enter exercises grades:\n");

scanf\_s("%i", &y);

printf("please enter the number of exrcises submitted:\n");

scanf\_s("%i", &z);

if (z < 9) {

if (z < 5) {

printf("your final grade is:\n0");

}

if (z == 5 || z == 6) {

if (x >= 55) {

w = 0.8 \* x + 0.2 \* y;

printf("your final grade is %lf", w);

}

if (x < 55) {

printf("your final grade is %i", x);

}

}

if (z == 7 || z == 8) {

if (x < 55) {

w = 0.75 \* x + 0.25 \* y;

printf("your final grade is %lf", w);

}

if (x > 54) {

w = 0.7 \* x + 0.3 \* y;

printf("your final grade is %lf", w);

}

}

}

}

**שאלה 10**

#include<stdio.h>

void main()

{

int x, ahadot, asarot, meot, sum;

printf("please enter a number that includes 3 characters:\n");

scanf\_s("%i", &x);

ahadot = x % 10;

asarot = x / 10 % 10;

meot = x / 100;

sum = ahadot + asarot + meot;

if (sum % 2 == 0) {

printf("the digit sum is %i.\nthe digit sum is even", sum);

}

else {

printf("the digit sum is %i.\nthe digit sum is not even", sum);

}

}

**שאלה 11**

#include<stdio.h>

void main()

{

int x, y;

printf("please enter a day:\n");

scanf\_s("%i", &x);

printf("please enter a month:\n");

scanf\_s("%i", &y);

if ((y == 3 && x >= 20) || (y == 4) || (y == 5) || (y == 6 && x < 21)) {

printf("we are at spring");

}

if ((y == 6 && x > 20) || (y == 7) || (y == 8) || (y == 9 && x < 22)) {

printf("we are now at summer");

}

if ((y == 9 && x > 21) || (y == 10) || (y == 11) || (y == 12 && x < 21)) {

printf("we are now at fall");

}

if ((y == 12 && x > 20) || (y == 1) || (y == 2) || (y == 3 && x < 20)) {

printf("we are now at winter");

}

}

**שאלה 12**

#include<stdio.h>

void main()

{

int x, ahadot, asarot, meot, sum, multiplication;

printf("please enter a number :\n");

scanf\_s("%i", &x);

ahadot = x % 10;

asarot = x / 10 % 10;

sum = ahadot + asarot;

multiplication = ahadot \* asarot;

if (x < 100 && x > 0) {

if (ahadot % 2 == 0 && asarot % 2 == 0) {

printf("even digits only\n%i", multiplication);

}

if (ahadot % 2 != 0 && asarot % 2 != 0) {

printf("odd digits only\n%i", sum);

}

if((ahadot % 2 == 0 && asarot % 2 != 0) || (ahadot % 2 != 0 && asarot % 2 == 0)) {

printf("mixed numbers");

}

}

else {

printf("ERROR");

}

}

**שאלה 13**

#include<stdio.h>

void main()

{

double a, b, c;

printf("please enter a rib length :\n");

scanf\_s("%lf", &a);

printf("please enter a rib length :\n");

scanf\_s("%lf", &b);

printf("please enter a rib length :\n");

scanf\_s("%lf", &c);

if (a + b < c || a + c < b || b + c < a) {

printf("not a good triangle\n");

}

else {

if (a == b && b == c) {

printf("Equilateral triangle\n");

}

else {

if (a == b || a == c || c == b) {

printf("isosceles triangle\n");

}

else {

if (a + b > c || a + c > b || b + c > a) {

printf("regular triangle\n");

}

}

}

}

if ((a \* a + b \* b == c \* c) || (a \* a + c \* c == b \* b) || (c \* c + b \* b == a \* a)) {

printf("Right angled triangle\n");

}

}

**שאלה 14**

#include<stdio.h>

void main()

{

int x, ahadot, asarot, meot, alaphim;

printf("please enter a number that includes 4 characters:\n");

scanf\_s("%i", &x);

ahadot = x % 10;

asarot = x / 10 % 10;

meot = x / 100 % 10;

alaphim = x / 1000;

if (ahadot == alaphim && asarot == meot) {

printf("palindrom");

}

else {

printf("not palindrom");

}

}